

REMARKS

Claims 1, 3-10, 12-23, 25-26, 28-32, and 37-38 have been amended. Claims 2 and 34-35 are canceled. Claims 27 and 33 were previously presented. Claims 11 and 24 are original. Claims 39-40 are new. Support for the new and amended claims can be found throughout the specification, for example, at least at Figures 1 and 2 and paragraphs [0005]-[0007], [0010]-[0011], [0028]-[0030], [0042], [0044], in the Abstract, and in original claims 3, 16, 22, and 26. Applicants respectfully request reconsideration in light of the amended claims and the remarks herein.

Telephonic Interview and Rejection Under 35 U.S.C. § 103

Applicants appreciate Examiner Akanbi agreeing to conduct a telephonic interview on July 23, 2008 to discuss the April 25, 2008 Final Office action and the cited references (U.S. Pat. No. 6,791,689 (Weckstrom), U.S. Pat. Publ. No. 2003/0025909 (Hallstadius), U.S. Pat. No. 5,222,389 (Wong), U.S. Pat. No. 3,449,565 (Barringer), and U.S. Pat. No. 3,385,322 (Komatsu)) and would like to thank Examiner Akanbi for the courtesies extended during the interview.

During the interview, Applicants discussed the pending independent claims 1, 16, 17, 26, and 37, the cited references, and proposed clarifying amendments to the claims to further specify Applicants' invention. Particularly, Applicants pointed out the failure of the applied references to teach or suggest using visible light to measure an attribute of ozone in ozonated water *in situ* in a delivery pipeline that delivers ozonated water to a semiconductor process tool. During the interview, Examiner Akanbi agreed that the discussed features were not present in the cited art. Applicants agreed to amend the claims to more specifically point out these features in light of the comments made during the telephonic interview, and Examiner Akanbi agreed to consider the amended claims and conduct a further search in light of the amended claims.

Applicants submit herewith a set of amended claims directed to the features discussed during the July 23, 2008 telephonic interview.

Claims 1, 3-10, 12-23, 25-26, 28-32, and 37-38 are currently amended and claims 39-40 are new. Applicants respectfully submit that the prior art of record does not recite at least the following limitations from Applicants' independent claims 1, 16, 17, 26, 37, and 39.

Claim 1

Applicants respectfully submit that the cited references, either alone or in combination, fail to teach or suggest at least the following combination of elements of claim 1 as amended:

“a delivery pipeline to contain ozonated water for delivery to a semiconductor process tool”;

“a first band of visible light and a second band of visible light...wherein the ozonated water has a greater absorption associated with the first band of visible light than with the second band of visible light”; and

“a photosensor that senses the first band of visible light and the second band of visible light...for measuring an attribute of the ozone in the ozonated water.”

Claim 16

Applicants respectfully submit that the cited references, either alone or in combination, fail to teach or suggest at least the following combination of elements of claim 16 as amended:

“a delivery pipeline in fluid communication with the contactor for delivery of ozonated water to a semiconductor process tool”;

“a first band of visible light and a second band of visible light...wherein ozone in the ozonated water has a greater absorption associated with the first band of visible light than with the second band of visible light”; and

“a photosensor that senses the first band of visible light and the second band of visible light after they pass along the substantially shared path for measuring an attribute of the ozone in the ozonated water.”

Claim 17

Applicants respectfully submit that the cited references, either alone or in combination, fail to teach or suggest at least the following combination of elements of claim 17 as amended:

“selecting a first band of visible light for which ozone has a greater absorption than for a second band of visible light”;

“directing the first and second bands of visible light through a delivery pipeline”;

“sensing the first band of visible light and the second band of visible light after they pass along a substantially shared path through the ozonated water”; and

“modifying a measured attribute of the ozone in the ozonated water determined from the sensed first band of visible light in response to the sensed second band of visible light.”

Claim 26

Applicants respectfully submit that the cited references, either alone or in combination, fail to teach or suggest at least the following combination of elements of claim 26 as amended:

“selecting a first band of visible light for which the ozone has a greater absorption than for a second band of visible light”;

“generating ozonated water in a ozonated water generation device”;

“sensing the first band of visible light and the second band of visible light after the first and second bands of visible light...pass along a substantially shared path...through the ozonated water after the ozonated water flows from the ozonated water generation device towards a semiconductor process tool”;

“modifying a measured ozone concentration determined from the sensed first band of visible light in response to the sensed second band of visible light...”; and

“adjusting at least one parameter of the ozone water generation device until the measured ozone concentration of the ozonated water substantially matches the desired ozone concentration.”

Claim 37

Applicants respectfully submit that the cited references, either alone or in combination, fail to teach or suggest at least the following combination of elements of claim 37 as amended:

“a delivery pipeline to contain the ozonated water”;

“a light source to direct a first band of visible light and a second band of visible light along a substantially shared path through the delivery pipeline”; and

“a photosensor positioned relative to the interior or exterior surface of the delivery pipeline for sensing the first and second bands of visible light passing along the substantially shared path to measure the attribute of the ozonated water.”

Claim 39

Applicants respectfully submit that the cited references, either alone or in combination, fail to teach or suggest at least the following combination of elements of new claim 39:

“a delivery pipeline to carry ozonated water to a semiconductor process tool”

“a light source configured to direct a first band of visible light and a second band of visible light through the ozonated water in the delivery pipeline”; and

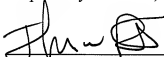
“a photosensor that senses the first band of visible light and the second band of visible light passing along a path for measuring an attribute of the ozone in the ozonated water.”

Because the cited references, either alone or in combination, fail to teach or suggest the above combinations of elements, Applicants respectfully request withdrawal of the rejection set forth in the April 25, 2008 Office Action. Applicants also respectfully submit that the independent claims are in condition for allowance. Applicants submit that pending claims 3-15, 18-25, 27-33, 38, and 40 which depend directly or indirectly from the independent claims also recite patentable subject matter.

CONCLUSION

Applicants respectfully submit that these remarks accurately reflect the content of the telephonic interview Applicants and Examiner Akanbi. Applicants respectfully request entry of this paper in the record as well as reconsideration, withdrawal of the pending rejections, and allowance of the pending claims. Applicants cordially invite Examiner Akanbi to contact the undersigned attorney by telephone to expedite prosecution and put the claims in condition for allowance.

Respectfully submitted,



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